The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex.
The blue wedges measured from the centre of the circle represent area for area the deaths from Preventable or Mitigable Zymotic Diseases, the red wedges measured from the centre the deaths from wounds, & the black wedges measured from the centre the deaths from all other causes.
The black line across the red triangle in Nov 1854 marks the boundary of the deaths from all other causes during the month.
In October 1854, & April 1855, the black area coincides with the red, in January & February 1856, the blue coincides with the black.
What is social visualization?

Visualizing information about people for people
Scientific visualization of Rayleigh-Taylor instability
audience: scientists
Challenger

• The Decision to Launch the Space Shuttle Challenger (See Tufte’s Visual Explanations)

• Report of the Presidential Commission on the Space Shuttle Challenger Accident
O-ring damage index, each launch

26°-29° range of forecasted temperatures (as of January 27, 1986) for the launch of space shuttle Challenger on January 28

Temperature (°F) of field joints at time of launch
A Management Decision Overrides a Recommendation Not to Launch

Criticism of Tufte’s Analysis
Information visualization: a treemap of the Linux kernel in logarithmic scale. Taken from: http://www.cs.umd.edu/hcil/VisuMillion/Treemap_Visualization_of_the_Linux_Kernel_2_5_33.html
What attracts people most is other people.

- William H. Whyte
NYT VisLab

The Year in Graphics (2012)
NYT VisLab

The Year in Interactive Storytelling (2013)
Baby Name Voyager

Click a name graph to view that name. Double click to read more about it.
Aaron Koblin

Bicycle Built for Two Thousand
We Feel Fine

i have a very close and special friend to me that really feels that we will get back together but i hate when she brings the subject up because i've tried to explain that i don't feel in love with her anymore and she wants to move on with her life too

7 days ago / from a 25 year old male in chattanooga tennessee united states when it was sunny

Snapshot of wefeelfine.com

Image taken from:
http://www.scottmacfarlane.me/2011/03/apis-and-the-human-emotion-week-4-blog/
by Harris and Kamvar
Hope/Crisis in the NYT

Images taken from:
http://randomnumber.nu/?p=2904 by Jer Thorp
Ripples

Image taken from:
http://hint.fm/projects/ripples/ by Fernanda Viégas and Martin Wattenberg
Wolfram Personal Analytics

Image taken from: http://blog.stephenwolfram.com/2012/08/wolframalpha-personal-analytics-for-facebook/
A message simply saying **hey** has an **84%** chance of being ignored.

*Based on anonymized OkCupid messages sent in 2015.*

Most likely to succeed

Emotional emojis see the highest reply rate

- 😓 45.0%
- 😞 43.6%
- 😴 43.6%
- 😞 43.0%
- 😢 42.5%
GapMinder, Rosling

Video at: http://www.gapminder.org/videos/200-years-that-changed-the-world-bbc/
Course Logistics

Karrie Karahalios <kkarahal@illinois.edu>

TAs: Hidy Kong <hkong6@illinois.edu>
    John Lee <lee98@illinois.edu>

TR 12:30-1:45pm
Siebel Center, Room 0216

Course website with link to syllabus at: http://social.cs.uiuc.edu/class/cs467/
Mailing List <cs467@cs.illinois.edu> (to be created)
Recommended Reading

2. *Envisioning Information* by Edward R. Tufte
5. *The Elements of Typographic Style* by Bringhurst
6. *Visualizing Data* by William S. Cleveland
7. *Design for Information* by Isabel Meirelles
8. *Information Visualization: Perception for Design* by Colin Ware
Assigned Work

1. Critiques - to be submitted by 10:00am on the due date. Done individually.

2. Designs - to be submitted as a pdf or html page by 10:00am on the due date. Presented in class. Maybe done in groups of up to X.

3. Implementations - working code of the ‘Design’ submitted by 10:00am on the due date. Presented in class. Maybe done in groups of up to X.

X will be announced next week :)
Course syllabus is subject to change and will most likely begin changing from this week :)
Course Evaluation

10% - class participation in discussion, attendance. Missed classes should be cleared with instructor. 3 missed courses will result in a lower letter grade.

10% - critiques of assigned readings.

50% - series of term projects (designs and implementations).

30% - final project implementation.
If you are taking the course for 4 units, you are also required to

(1) read and critique a few extra papers (as specified on the syllabus)

(2) complete a 10 page paper in ACM format detailing the design, implementation, and preliminary usage of your final project. (This is to be done individually, even if you are in a group.)
Examples of data/visualization ideas

1. Email
2. IM interaction
3. Quantified self: footsteps, temperature, etc.
4. Usenet, news group, group interaction
5. Small group interaction
6. Linguistic parameters
7. Mobile communication patterns
8. Clan formation in online games
9. Objects that visualize “memory of interaction”
10. Visualizing voice over IP audio streams
11. Visualizing video streams over time
12. Visualizing music taste
13. Visualizing photo archives/communities
14. Visualizing frequented ‘places’ or spaces
Critiques

1. Should be at least half a page single spaced, 11pt times for each paper. ~280 words for each paper/vis
2. Should not be summaries of the paper
3. Should include: positives in the paper/work, areas that you think need improvement, what you think should be done next to further the work
4. PDF format
Implementations

1. Not a class that teaches how to program
2. Programming is not a prereq for this class
3. Are expected to try and learn to program
4. Are expected to create and reiterate on designs
5. Class supports the D3
6. In the past, students have also used Processing, Java, Cocoa, iOS, etc.
Academic Integrity

University Student Conduct Code for Academic Integrity
First Assignment

Look at:

infosthetics.com/
informationisbeautiful.net/
eagereyes.org
infovis.org
visualcomplexity.com
perceptualedge.com
visualizing.org
flowingdata.com
visual.ly
r/DataIsBeautiful - reddit
datakind.org

We Feel Fine at http://www.wefeelfine.org/
NYT 2012: The Year in Graphics
NYT 2013: The Year in Interactive Storytelling

Read:
D3: Data-Driven Documents by Bostock, Ogievetsky, and Heer
Submit the assignment on compass